



S/N 09/111,978

Expedited Procedure-Group 2877
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Leonard H. Bieman
Serial No.: 09/111,978
Filed: July 8, 1998
Title: SCANNING PHASE MEASURING METHOD AND SYSTEM FOR AN
OBJECT AT A VISION STATION

Examiner: Hoa Q. Pham
Group Art Unit: 2877
Docket: 139.045USR

18/E (N-1)
G. Stonley
8-29-01

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116

Commissioner for Patents
Washington, D.C. 20231

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AUG 29 2001
TC 2800 MAIL ROOM

Applicant has reviewed the Final Office Action mailed June 22, 2001. Please amend the
above-identified patent application as follows.

Not Entered!
HP
8/20/01

IN THE CLAIMS

Please amend claims 30 and 60 as follows: **(Status of all claims after current
Amendment, with underlining and bracketing showing changes from originally issued
claims.)** A clean copy of the pending claims is attached as an appendix.

1. [Amended Once] A method for high speed, scanning phase measuring of an object at a
vision station to develop physical information associated with the object, the method comprising
the steps of:

- projecting a pattern of imagable electromagnetic radiation with at least one projector;
- moving the object relative to the at least one projector at a substantially constant velocity
at the vision station so as to scan the projected pattern of electromagnetic radiation across a
surface of the object to generate an imagable electromagnetic radiation signal;
- receiving the imagable electromagnetic radiation signal from the surface of the object
with a detector having a plurality of separate detector elements which are substantially uniformly
spaced;
- maintaining the at least one projector and the pattern of imagable electromagnetic
radiation and the detector in a substantially fixed relation to each other;
- measuring an amount of radiant energy in the received electromagnetic radiation signal